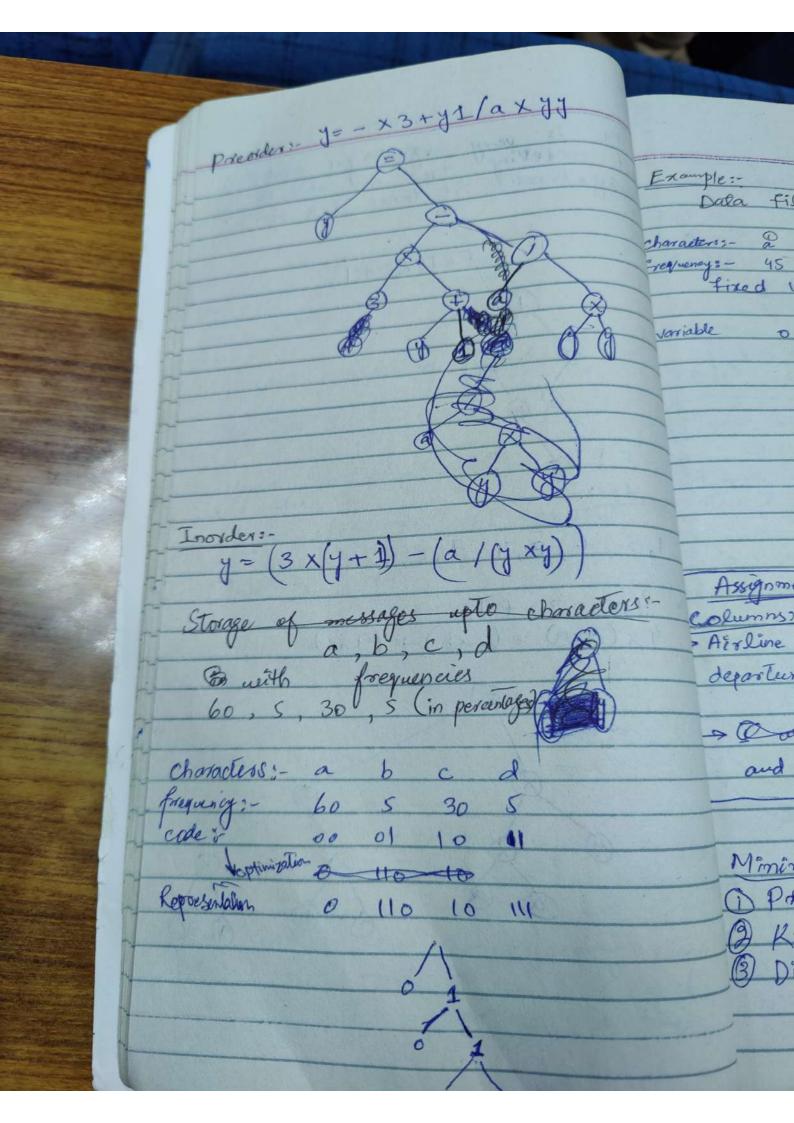
After Sessional 1 LECTURE # 8 forthest Number of different edges in two two spanning trees of a graph are so is called distance of the p In case of fully connected graph the modernum number of distance of trees could be n-1 (may be I think).

PRUFER CODES: saving, because Pendant vertices => 1,2,6,3 3930 S= {7, 4, 4, 7, 5} -> Remove the edge between 1 & 7 and add the 7 in S.

-> Same steps for all pendant vertices. This is left! SARS = {7,4,4,7,5} V= {1,2,3,4,5,6,7} -> Now remove the corresponding element from the start of S & V and connect those vertices in the Drarby.

and recieving tree and also for sawing, because it takes less space. LECTURE#9 & 7 and int 1, 2, 6, 3, 4, 7, 8, 5  $\Rightarrow$   $4a^2 = 2b + 9c$  4x(axa) = (2xb) + (9xc)lement



77 Example: Dala file: 100,000 characters characters - a b c do fixed length minble HO HO TO HILL Assignment 1 2-Airline, Origin airport, destinationsisports, destinationsisports, and add weighted edges. LECTURE # 10 Minimum Spanning Tree: 9 Kruskels (3) Dijekstra's

Weg chosen Planor Gra Geom in such a KRUSKAL'S PRIMS2 intersect programming perspectives O Traversed nodes: 0 -> 10 D Untraversed modes: 10 →0 (3) & Adjacent edge list: - e.e.es LECTURE # 11 Euler circuit/path/Tour Hamiltonian path/cycle/circuit Verter connectivity: Minimum number of revertices is must be removed to divide the graph into multiple components.

By This is a planar grape, show it Lecture # 12 Prim's Adjorithms]
We see only the edges that are connected with the edge Kruskal's Atgorithus:

Were see the g whole graph
as a whole and choose the ninimum one. 9, 4, 1, ;} we also check the edge we chosen must not make a cycle Planor Graphs: Geometric representation of graph in such a way that no two edges intersect each other. Fuled Formula: e edges has e-n+2 regions. n=4, e=6Regions= e-n+2=6-4+2Regions = 4.
To check graph is planar or Not:Graph G is a simple graph with n>3, then the following rule
must hold in order for this graph to be planar